TCP/IP REFERENCE MODEL

18→ APPLICATION LAYER	TELNET, FTP, SMTP, DNS
16→ TRANSPORT LAYER	TCP, UDP
14→ NETWORK LAYER	IP
12→ DATA LINK LAYER	ETHERNET, TOKEN RING, DQDB
10→ PHYSICAL LAYER	FIBER OPTICS, COAXIAL CABLE

FIG. 1 (PRIOR ART)

EXAMPLE PACKET

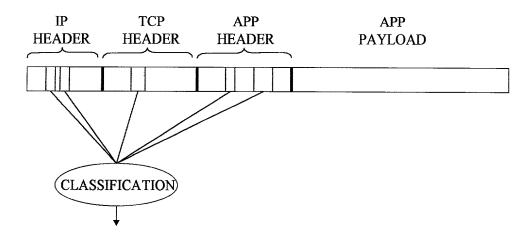


FIG. 2 (PRIOR ART)

IP PACKET (DATAGRAM)

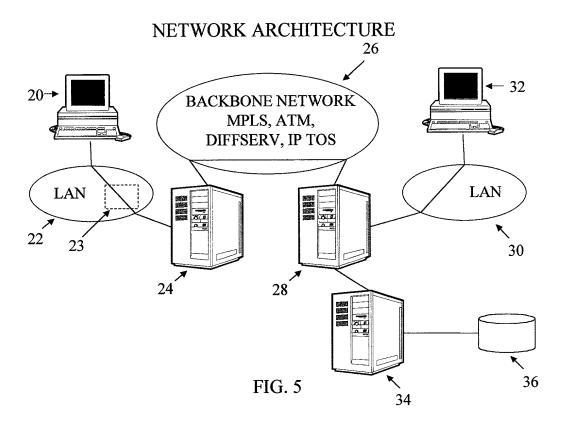
Ü	4	8	16	19	24	ļ	31
VERS	HLEN	TYPE SERVICE	TOTAL LENGTH				
IDENTIFICATION			FLAGS	FRAGMENT OFFSET			
TIME 7	TO LIVE	PROTOCOL	HEADER CHECKSUM				
SOURCE IP ADDRESS							
DESTINATION IP ADDRESS							
IP OPTIONS (IF ANY)				PADDING			
DATA							
•••••							

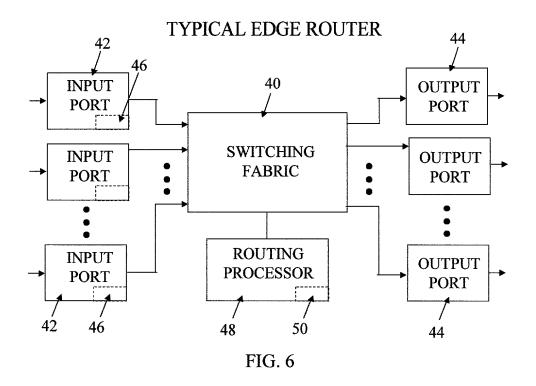
FIG. 3 (PRIOR ART)

TCP SEGMENT

0	4	10	16	24	31			
SOURCE PORT			DESTINATION PORT					
SEQUENCE NUMBER								
ACKNOWLEDGEMENT NUMBER								
HLEN	RESERVED	CODE BITS	WINDOW					
CHECKSUM URG				RGENT POINTE	R			
OPTIONS (IF ANY)				PAD	DING			
DATA								
•••••								

FIG. 4 (PRIOR ART)





CLASSIFICATION FUNCTIONALITY SOURCE QOS **IDENTIFICATION** SERVICE CODE TABLE CODE (E.G. TOS FIELD) (E.G. IP SOURCE) 62 66 CORRES-**PONDING DETERMINE** LOOKUP **CODE SERVICE TECHNIQUE CLASS** (E.G. LMP) 60 64

FIG. 7